

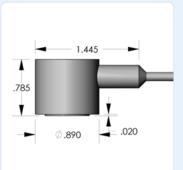




ISR30 Sensor

Intrinsically Safe Sensor





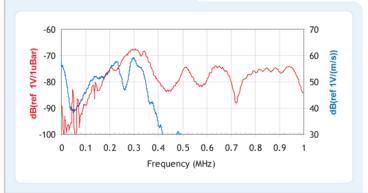
DESCRIPTION AND FEATURES

The ISR30 is a 300 kHz resonant frequency sensor that was designed specially to meet Intrinsic Safety (IS) and IP66 environmental requirements. Certified as Intrinsically Safe (IS) for use with our 1276-2 IS preamplifier and 1276-1 and 1278 IS ASL-C subsystem, this sensor has a thicker ceramic wear-plate and an epoxy coating completely covering the sensor and cable exit. An IS voltage protection circuit is built into the sensor.

It has an integrated one-meter long differential cable with extruded TPE jacket and a pigtail for connecting into a 1276 or 1278 IS Preamplifier or Subsystem. The sensor has similar frequency response as the R30 sensor. Its maximum operating temperature is 125°C.

APPLICATIONS

This sensor provides additional noise rejection for applications such as production line process monitoring applications such as punch press monitoring, forming operations, stamping, applications and process control applications such as leak detection within process control plants in the presence of flow and process noises, where intrinsically safe sensors and systems are required.



PRODUCT DATA SHEET

OPERATING SPECIFICATIONS

Dynamic

D	ynamic
Р	eak Sensitivity, Ref V/(m/s)58 dB
Р	eak Sensitivity, Ref V/μbar64 dB
О	perating Frequency Range150-400 KHz
R	esonant Frequency, Ref V/(m/s)300 dB
R	esonant Frequency, Ref V/µbar350 KHz
	irectionality+/- 1.5 dB
F	nvironmental
_	emperature Range45 to 125°C
	hock Limit
	/aterproofIP66
	ompletely enclosed crystal for RFI/EMI immunity
-	ompletely enclosed crystal for Krij Livii illillidiity
	hysical
D	imensions
	22.6 mm OD X 19.2 mm H
٧	/eight27 grams with 1 meter cable
С	ase MaterialStainless steel/Epoxy
F	ace MaterialCeramic
С	onnectorPigtail
С	onnector LocationsSide
S	ealEpoxy
S	ensor to Preamp Cable (1 meter) Integral
C	ertifications

ATEX Certified, II1, GD, EEx, ia, IIC T4

ORDERING INFORMATION AND ACCESSORIES

ISR30	ISR30
Pre-amplifier	1276-2
ASL-4-20 ma Subsystem	1276-1
Preamp to System Cable (specify length in 'm')	. 1276C
IS Zener Barrier	. 1276B
Other IS Sensors are available with various resonant	
frequencies	

Sensors include

NIST Calibration Certificate & Warranty







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